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Carbohydrate medical solution and sulfite stabilizer in a multiple compartment container, useful for e.g. for peritoneal dialysis

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Patent Family: 12 patents, 92 countries

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001089478	A1	20011129	WO 2001SE1125	A	20010518	200212	B
AU 200160918	A	20011203	AU 200160918	A	20010518	200221	E
EP 1289496	A1	20030312	EP 2001934766	A	20010518	200320	E
			WO 2001SE1125	A	20010518		
BR 200111095	A	20030408	BR 200111095	A	20010518	200329	E
			WO 2001SE1125	A	20010518		
KR 2003001486	A	20030106	KR 2002715215	A	20021113	200332	E
US 20030159953	A1	20030828	WO 2001SE1125	A	20010518	200357	E
			US 2003275104	A	20030303		
CN 1427716	A	20030702	CN 2001808812	A	20010518	200361	E
JP 2003534052	W	20031118	JP 2001585723	A	20010518	200401	E
			WO 2001SE1125	A	20010518		
MX 2002010839	A1	20040301	WO 2001SE1125	A	20010518	200475	E
			MX 200210839	A	20021104		
AU 2001260918	B2	20050811	AU 2001260918	A	20010518	200558	E
CN 1190186	C	20050223	CN 2001808812	A	20010518	200628	E
AU 2001260918	B8	20051208	AU 2001260918	A	20010518	200637	E

Priority Applications (no., kind, date): SE 20001939 A 20000525

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2001089478	A1	EN	29	0		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR					
AU 200160918	A	EN			Based on OPI patent	WO 2001089478
EP 1289496	A1	EN			PCT Application	WO 2001SE1125

					Based on OPI patent	WO 2001089478
Regional Designated States, Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
BR 200111095	A	PT			PCT Application	WO 2001SE1125
					Based on OPI patent	WO 2001089478
US 20030159953	A1	EN			PCT Application	WO 2001SE1125
JP 2003534052	W	JA	31		PCT Application	WO 2001SE1125
					Based on OPI patent	WO 2001089478
MX 2002010839	A1	ES			PCT Application	WO 2001SE1125
					Based on OPI patent	WO 2001089478
AU 2001260918	B2	EN			Previously issued patent	AU 2001260918
					Based on OPI patent	WO 2001089478
AU 2001260918	B8	EN			Based on OPI patent	WO 2001089478

Alerting Abstract WO A1

NOVELTY - A multicompartment container for sterile carbohydrate medical solutions comprises a sulfite compound in 1 or more of the compartments to stabilize decomposition of carbohydrates or to scavenge decomposition products formed during sterilization and/or storage.

DESCRIPTION - A multicompartment container for sterile medical solutions, where the solutions are present in 2 or more compartments, and at least 1 of the solutions comprises a carbohydrate compound, and at least 1 sulfite compound is present in 1 or more of the compartments.

INDEPENDENT CLAIMS are included for the following:

- A. a sterile medical solution comprising a carbohydrate compound and at least 1 sulfite compound selected from HSO_3^- , $\text{S}_2\text{O}_5^{2-}$ and SO_3^{2-} , having a positive counter ion, preferably NaHSO_3 , $\text{Na}_2\text{S}_2\text{O}_5$ and/or Na_2SO_3 , where the sulfite compound is a monosulfite, present at 0.01-10 mM or a disulfite compound at 0.005-5 mM; and
- B. a method of stabilizing a carbohydrate containing sterile medical solution by adding at least 1 sulfite compound at 0.05-1 (preferably 0.05-0.5) mM for a monosulfite or 0.005-5 (preferably 0.025-0.25) mM for a disulfite compound.

ACTIVITY - Nephrotropic.

MECHANISM OF ACTION - None given in the source material.

USE - For use in treatment of diseases such as uremic kidney disease or kidney malfunctions, including treatment of diseases using peritoneal dialysis. The solution may be used to scavenge toxic or allergenic compounds in vivo, e.g. in body fluids.

Technology Focus

PHARMACEUTICALS - Preferred Container: The multicompartment container preferably comprises a monosulfite compound at 0.01-10 (preferably 0.05-0.5)mmol per liter of the total amount of solution in the container, or a disulfite compound at 0.005-5 (preferably 0.025-0.25)mmol per liter. The pH of the mixed solution in the container is 5.0-8.0 (preferably 7.0-7.5). The carbohydrate is preferably glucose, present at 4wt.% of the total amount of solution in the container.

The carbohydrate compound is not present in all compartments, preferably in only 1 compartment in a 2 compartment bag, or in only 2 of 3 compartments in a 3 compartment bag. The pH of the solution in the carbohydrate compartment is 2.0-7.5 (preferably 3.2).

After mixing, the final solution has a concentration of monosulfite compound of 0.01-10 (preferably 0.025-0.25) mM, or disulfite compound of 0.005-5 (preferably 0.025-0.25) mM, and comprises 1.5-4

(preferably 1.5, 2.5 or 4)% glucose.
The container may be sterilized using heat treatment.

II. Original Publication Data by Authority

Original Abstracts:

The invention relates to a multiple compartment container for sterile medical solutions, particularly solutions for peritoneal dialysis containing a carbohydrate stabilisation compound, a carbohydrate medical solution containing said carbohydrate stabilisation compound and a method for the preparation thereof.

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La presente invention concerne un recipient a compartiments multiples destine a des solutions medicales steriles, en particulier a des solutions pour dialyse peritoneale contenant un compose de stabilisation glucidique. Cette invention concerne aussi une solution medicale glucidique contenant ce compose de stabilisation glucidique et une technique de preparation de celle-ci.

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